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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,066	07/28/2003	Gregory S. Herman	200209441-1	5837
22879	7590 02/23/2006		EXAMINER	
			PARSONS, 1	ГНОМАЅ Н
	2400, 3404 E. HARMON UAL PROPERTY ADM		ART UNIT	PAPER NUMBER
FORT COLL	INS, CO 80527-2400		1745	

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/629,066	HERMAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Thomas H. Parsons	1745	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	th the correspondence address	_
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIO  1.136(a). In no event, however, may a re  od will apply and will expire SIX (6) MON  tute, cause the application to become ABA	CATION.  apply be timely filed  THS from the mailing date of this communication  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 28	July 2003.		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ The section is <b>FINAL</b> .	his action is non-final.		
3) Since this application is in condition for allow			is
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-44</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdo			
5) Claim(s) is/are allowed.			•
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-44</u> are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) □ a	ccepted or b)□ objected to b	by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ection is required if the drawing(	s) is objected to. See 37 CFR 1.121	(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
1.☐ Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume		oplication No	
3. Copies of the certified copies of the pr	iority documents have been i	received in this National Stage	
application from the International Bure	eau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a li	st of the certified copies not r	received.	
Attachment(s)	_		
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) /Mail Date	
<ul> <li>Notice of Draisperson's Patent Drawing Review (P10-946)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date</li> </ul>		formal Patent Application (PTO-152)	

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-14, drawn to a method of obtaining hydrogen, classified in class 429, subclass 13.
  - II. Claims 15-19, drawn to a method of operating a fuel cell, classified in class 429, subclass 17.
  - III. Claims 20-26, drawn to a method of heating a fuel cell, classified in class 429, subclass 26.
  - IV. Claims 27-44, drawn to a fuel cell, classified in class 429, subclass 12.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I, II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different modes of operation.

Invention I passes a gas stream over an anode effluent stream and obtains a hydrogen gas stream from the anode effluent stream

In contrast to that of Invention I, Invention II operates a fuel cell during start up by replenishing the stored hydrogen by passing a hydrogen gas steam obtained from an anode effluent stream into a hydrogen storage unit.

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In contrast to that of Inventions I and II, Invention III heats a fuel cell by passing oxygen over an active material in a hydrogen storage unit to create an exothermic reaction and uses the heat from the reaction to heat the fuel cell.

- 3. Inventions III and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process of heating a fuel cell may be practiced by another and materially different apparatus such as by heat strips coiled inside the fuel cell and energized by an external power source can be used to pre-heat the fuel cell wherein the external power source can be any suitable source such as a battery powered generator.
- 4. Inventions I and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process of obtaining hydrogen can be practiced by another and materially different process such as by an electrolytic cell.
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

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6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas H. Parsons whose telephone number is (571) 272-1290. The examiner can normally be reached on M-F (7:00-4:30) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PATRICK JOSEPH RYAN

AT PATENT EXAMINER

Thomas H Parsons Examiner Art Unit 1745

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